

AC/DC MONITOR SYSTEM

ABSTRACT OF THE DISCLOSURE

5 A combined AC/DC monitoring system simultaneously monitors an AC power supply and a DC power supply in a mobile unit,. The monitoring system is electrically isolated from an AC input source through an AC isolation transformer. A microcontroller digitally provides various computed variables from various digitized input signals. The monitoring system simultaneously displays a plurality of the computed variables while the
10 system monitors for various user-selected high/low conditions of the computed variables. The system monitors AC power surges and can alternately displays a high voltage level for a predetermined time and a low voltage level for a predetermined time. An algorithm determines whether the AC voltage is a true sine wave or otherwise. The system monitors DC current on the high side, or positive terminal, of a battery. User selectable
15 DC shunts are provided to measure a range of DC currents.